

PROGRAM	
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Sunday Evening, 6 December 1998

Registration: 5:00 pm to 7:00 pm

Location: Foyer – Salon 3  
Set Up Poster Presentations: 5:00 pm to 7:00 pm

Set Up Poster Presentations: 5:00 pm to 7:00 pm  
Location: Salons 3 & 4

Location: Salons 3 & 4

8:30-10:00 AM	Monday Morning, 7 December 1998,	PLENARY SESSION
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Location: Salons 1 & 2
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**Moderator: David Biggs**

8:30 – 8:45 Welcome – **David Riggs**, Chairman, Crop Protection Coalition

8:45 – 9:00Florida Welcome – **Martha Roberts**, Deputy Commissioner of Agriculture for Food Safety, Florida Dept. of Ag and Consumer Services

9:00 – 9:30 Current Regulatory Situation – **Ed Ruckert**, McDermott, Will & Emery

9:45 – 10:00 Housekeeping – **Gary L. Obenauf** MBAQ Program Committee Chairman

9:45	10:00	Housekeeping	Gayle E. Oschwald, MBAAC Program Committee Chairman
10:00	10:30 AM	Break	

10:00 – 10:30 AM	Break
Location: Salons 3 & 4	

**Monday Morning, 7 December 1998. Concurrent Sessions**

<b>Preplant Session: Submitted Papers</b>	<b>10:30-12:00 Noon</b>	<b>Postharvest Session: Submitted Papers</b>	<b>10:30-12:00 Noon</b>
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<b>Moderator:</b> Joe Noling 10-20-10-50 Hill Hall, Glenview, IL 60045-7533 312-470-8211	<b>Location:</b> Salons 9 & 10	<b>Moderator:</b> Fusao Kawakami 10-20-10-50 Rm. 2, Hill Hall, Glenview, IL 60045-7533 847-470-8211	<b>Location:</b> Salons 11 & 12
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10:30-10:50	<b>Walid Abu-Gharbieh [1]</b> -Effect of Post-Plant Soil Solarization on Survival of Ten Plant Species and Control of	10:30-10:50	<b>Peter Follett [52]</b> -Questioning the Pest and Quarantine Status of the Mango Seed Weevil in Hawaii
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Solarization on Survival of Ten Plant Species and Control of Soilborne Pathogens	Status of the Mango Seed Weevil in Hawaii
10:50-11:10	<b>Fusao Kawakami [53]</b> -Current Research of Alternatives to

10:50-11:10	<b>David Sotomayor [2]</b> -Solarization and Anaerobic Soil	MeBr in Japanese Quarantine
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Management Practices as Alternatives to MeBr for Vegetable Production in Florida	11:10-11:30	<b>M.Kostyukovsky [54]</b> -Fumigation of Cut Flowers with Reduced Dosage of MeBr
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11:10-11:30	<b>Bill Brodie [3]</b> - Use of Steam in Place of MeBr as a	11:30-11:50	<b>Michael Lay-Yee [55]</b> -Heat for Apple Disinfestation-Fruit
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2019-2020	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	2028-2029	2029-2030	2030-2031	2031-2032	2032-2033	2033-2034	2034-2035	2035-2036	2036-2037	2037-2038	2038-2039	2039-2040	2040-2041	2041-2042	2042-2043	2043-2044	2044-2045	2045-2046	2046-2047	2047-2048	2048-2049	2049-2050	2050-2051	2051-2052	2052-2053	2053-2054	2054-2055	2055-2056	2056-2057	2057-2058	2058-2059	2059-2060	2060-2061	2061-2062	2062-2063	2063-2064	2064-2065	2065-2066	2066-2067	2067-2068	2068-2069	2069-2070	2070-2071	2071-2072	2072-2073	2073-2074	2074-2075	2075-2076	2076-2077	2077-2078	2078-2079	2079-2080	2080-2081	2081-2082	2082-2083	2083-2084	2084-2085	2085-2086	2086-2087	2087-2088	2088-2089	2089-2090	2090-2091	2091-2092	2092-2093	2093-2094	2094-2095	2095-2096	2096-2097	2097-2098	2098-2099	2099-2100	2100-2101	2101-2102	2102-2103	2103-2104	2104-2105	2105-2106	2106-2107	2107-2108	2108-2109	2109-2110	2110-2111	2111-2112	2112-2113	2113-2114	2114-2115	2115-2116	2116-2117	2117-2118	2118-2119	2119-2120	2120-2121	2121-2122	2122-2123	2123-2124	2124-2125	2125-2126	2126-2127	2127-2128	2128-2129	2129-2130	2130-2131	2131-2132	2132-2133	2133-2134	2134-2135	2135-2136	2136-2137	2137-2138	2138-2139	2139-2140	2140-2141	2141-2142	2142-2143	2143-2144	2144-2145	2145-2146	2146-2147	2147-2148	2148-2149	2149-2150	2150-2151	2151-2152	2152-2153	2153-2154	2154-2155	2155-2156	2156-2157	2157-2158	2158-2159	2159-2160	2160-2161	2161-2162	2162-2163	2163-2164	2164-2165	2165-2166	2166-2167	2167-2168	2168-2169	2169-2170	2170-2171	2171-2172	2172-2173	2173-2174	2174-2175	2175-2176	2176-2177	2177-2178	2178-2179	2179-2180	2180-2181	2181-2182	2182-2183	2183-2184	2184-2185	2185-2186	2186-2187	2187-2188	2188-2189	2189-2190	2190-2191	2191-2192	2192-2193	2193-2194	2194-2195	2195-2196	2196-2197	2197-2198	2198-2199	2199-2200	2200-2201	2201-2202	2202-2203	2203-2204	2204-2205	2205-2206	2206-2207	2207-2208	2208-2209	2209-2210	2210-2211	2211-2212	2212-2213	2213-2214	2214-2215	2215-2216	2216-2217	2217-2218	2218-2219	2219-2220	2220-2221	2221-2222	2222-2223	2223-2224	2224-2225	2225-2226	2226-2227	2227-2228	2228-2229	2229-2230	2230-2231	2231-2232	2232-2233	2233-2234	2234-2235	2235-2236	2236-2237	2237-2238	2238-2239	2239-2240	2240-2241	2241-2242	2242-2243	2243-2244	2244-2245	2245-2246	2246-2247	2247-2248	2248-2249	2249-2250	2250-2251	2251-2252	2252-2253	2253-2254	2254-2255	2255-2256	2256-2257	2257-2258	2258-2259	2259-2260	2260-2261	2261-2262	2262-2263	2263-2264	2264-2265	2265-2266	2266-2267	2267-2268	2268-2269	2269-2270	2270-2271	2271-2272	2272-2273	2273-2274	2274-2275	2275-2276	2276-2277	2277-2278	2278-2279	2279-2280	2280-2281	2281-2282	2282-2283	2283-2284	2284-2285	2285-2286	2286-2287	2287-2288	2288-2289	2289-2290	2290-2291	2291-
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11:30-11:50	<b>Andrew Nyczepir [4]-Effect of Preplant Solarization on</b> Bio-Nutrition in Root-Tuber Short-Life-Span	11:50-12:00 Noon	<b>Discussion of Problems with Implementation of</b>
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Ring Nematode in a Peach Tree Short Life Site		
11:50-12:00 Noon	Discussion of Problems with Implementation of	the Alternatives

11:30-12:30 Noon	Discussion of Problems with Implementation of the Alternatives	the Alternatives
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<b>Lunch Break    12:00 Noon – 1:00 PM</b>	
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**MeBr** - Methyl Bromide  
**[#]** - Refers to Presentation Number in Proceedings Book

Monday Afternoon, 7 December 1998, Concurrent Sessions			
Registration		Location: Foyer – Salon 3	
<b>Preplant Session: Submitted Papers</b> <b>PM Moderator: John Duniway</b> <b>9 &amp; 10</b>		<b>Postharvest Symposia: Technology Transfer Issues:</b> <b>Moderator: Beth Mitcham</b> <b>Temperature and Controlled Atmosphere Treatments:</b>	
1:00-1:20 <b>Frank Martin [5]</b> -Rhizosphere Ecology of Strawberry; Root Pathogens and Beneficial Colonizers		1:00-3:00 PM <b>Location: Salons 11 &amp; 12</b>	
1:20-1:40 <b>John Duniway [6]</b> -Response of Strawberry to Soil Fumigation: Microbial Mechanisms and Some Alternatives to MeBr		1:00-1:10 <b>Lisa Neven [56]</b> -Technology Transfer Issues Involved in Application of Temperature and Controlled Atmosphere Quarantine Treatments for Fresh Commodities	
1:40-2:00 <b>Roberto Garcia-Espinosa [7]</b> -Important Biological Components to be Included in the Search for Alternatives to the Use of MeBr in Mexico		1:10-1:20 <b>Scott Wood</b> –Implementation Issues	
2:00-2:20 <b>Mark Mazzola [8]</b> -Towards the Development of Sustainable Alternatives for the Control of Apple Replant Disease In Washington (?)		<b>Irradiation Treatments:</b>	
2:20-2:40 <b>Alison Morgan [9]</b> -Genetic Engineering as an Alternative to MeBr Fumigation		1:20-1:30 <b>Guy Hallman [56A]</b> -Technology Transfer Issues for Irradiation Quarantine Treatments	
2:40-3:00 <b>Judy Thies [10]</b> -Characterization of Resistance Conferred by the <i>N</i> Gene to <i>Meloidogyne Arenaria</i> , <i>M.Hapla</i> , & <i>M.Javanica</i> in ‘Charleston Belle’ and ‘Carolina Wonder’ Bell Peppers		1:30-1:40 <b>Lyle Wong</b> –Implementation Issues	
<b>3:00-3:15 PM</b> <b>Discussion of Problems with Implementation of the Alternatives</b>		1:40-1:50 <b>Ralph Ross</b> -Implementation Issues	
		<b>Economic Analysis of Nonchemical Alternatives:</b>	
		1:50-2:00 <b>Janet Carpenter</b>	
		2:00-3:00 PM Open Forum: Technology Transfer & Implementation Issues	
		<b>Facilitator: Krista Shellie [57]</b>	
<b>3:00-3:30 PM</b>		<b>Break</b>	
Location: Salons 3 & 4			
<b>Preplant Symposia: Technical and Economic</b> <b>PM</b> <b>Implications of Preplant Methyl Bromide Alternatives</b> <b>Moderator: Leonard Gianessi</b> <b>3:30-3:40 Janet Carpenter</b> – <b>3:40-3:50 Barrett Lawrimore</b> – <b>3:50-4:00 Andrew Bishop</b> – <b>4:00-4:10 Jack Wick</b> –		<b>Postharvest Session: Submitted Papers</b> <b>Moderator: Patrick Vail</b> <b>12</b> <b>3:30-3:50 Gerhard Knapp [58]</b> -Methyl Bromide Recovery <b>3:50-4:10 Errick Willis [59]</b> -New Design for Zeolite-Based Recapture <b>4:10-4:30 Krista Shellie [60]</b> -Decay Control during Refrigerated, Ultra-Low Oxygen Storage for Disinfestation of Mexican	
Location: Salons 9 & 10			
Economic Analysis			
Southeast Vegetables			
Florida Nurseries			
California Nurseries			

4:10-4:20	<b>Bob Driver</b> –	California Perennials	Fruit Fly <b>Yigal Carmi [61]</b> -Improving Phosphine Penetration into Deep Grain Bin by Aid of Carbon Dioxide <b>4:50-5:10 Morris Warren [62]</b> -Propylene Oxide, A Registered Fumigant. A Proven Insecticide <b>5:10-6:00 PM Discussion of Problems with Implementation of the Alternatives</b>
4:20-4:30	<b>Dan Botts</b> –	Florida Vegetables	
4:30-4:40	<b>Charles Hinton</b> –	Florida Strawberries	
4:40-4:50	<b>David Riggs</b> –	California Strawberries	
<b>4:50-6:00 PM</b>	<b>Discussion of Problems with Implementation of the Alternatives</b>		
<b>Facilitator:</b>	<b>Leonard Gianessi</b>		
<b>6:30-7:30 PM Poster Session: Moderator :</b>			<b>Bill Thomas</b>
			<b>Location: Salons 3 &amp; 4</b>
<b>7:00-8:30 PM R E C E P T I O N</b>			<b>Location: Salons 3 &amp; 4</b>

Tuesday Morning, 8 December 1998, Concurrent Session			
Registration			
Location: Foyer – Salon 3			
Preplant Session: Submitted Papers		8:00-9:50 AM	
Moderator:	James Gilreath	Location:	Salons 9 & 10
8:00-8:20	Husein Ajwa [11]- Soil Distribution of Alternative Fumigants to MeBr Applied to Strawberry Beds by Drip Irrigation Systems		
8:20-8:40	Thomas Trout [12]- Strawberry Response to 1,3-D, Chloropicrin, and Metham Sodium applied by Drip Irrigation Systems		
8:40-9:00	Ronald Oremland [13]-Bacterial Oxidation of MeBr: Results of Soil Flux Chamber Experiments		
9:00-9:20	Jerome Fritsch [14]-Strawberries Crops in France: Different Methods to Apply MeBr and Metam Sodium in Open Fields		
9:20-9:40	James Gilreath [15]-Gas Impermeable Mulch Film Affects Pepper Production		
9:40-9:50 AM	Discussion of Problems with Implementation of the Alternatives		
9:30-10:00 AM			
Break			
Location: Salons 3 & 4			
Postharvest Session: Submitted Papers		8:00-9:30 AM	
Moderator:	Gil Simmons	Location:	Salons 11 & 12
8:00-8:20	Joel Coats [63]-Natural Fumigants and Derivatives and Analogs		
8:20-8:40	Lisa Neven [64]-CATTs Quarantine Treatments for Sweet Cherries: A Dream or Reality?		
8:40-9:00	Lisa Neven [65]-A Quarantine Treatment that Improves Quality?!? Development of Combination Heat & CA Treatments for Apples and Pears		
9:00-9:20	Gil Simmons [66]-Methods Which May Prove Beneficial to Maintaining Sweet Cherry Quality after Quarantine Treatments		
9:20-9:30 AM	Discussion of Problems with Implementation of the Alternatives		

<b>Preplant Symposia: Methyl Bromide Alternatives</b> <b>Alternatives for Nursery Crops</b> <b>Moderator: Robert Linderman</b> 10:00-10:20 <b>Andrew Bishop [16]</b> -Back to the Future: Progress and Problems with Steam as a Preplant Treatment of Field Soil 10:20-10:40 <b>Jack Pinkerton [17]</b> - Soil Solarization: A Perspective from a Northern Temperate Region 10:40-11:00 <b>Robert Linderman [18]</b> -Managing Soilborne Diseases by Managing Root Microbial Communities 11:00- 12:00 Noon Discussion of Problems with Implementation of the Alternatives Facilitator: Robert Linderman	<b>10:00-12:00 Noon</b>
<b>Postharvest Session: Submitted Papers</b> <b>Moderator: Don Silhacek</b> 10:00-10:20 <b>Elizabeth Mitcham [67]</b> -Control of Grape Mealybug using Carbon Dioxide and Sulfur Dioxide 10:20-10:40 <b>Shlomo Navarro [68]</b> -Disinfestation of Nitidulid Beetles from Dried Fruits by Modified Atmospheres 10:40-11:00 <b>Dennis Shuman [69]</b> - Update on Electronic Monitoring of Stored-Product Insects 11:10-11:30 <b>Don Silhacek [70]</b> -Control of Flour Moths on Commodities Stored in Small Warehouses Using the IGR, Fenoxycarb <b>11:30-12:00 Noon Discussion of Problems with Implementation of the Alternatives</b>	<b>10:00-12:00 Noon</b> <b>Location: Salons 11 &amp; 12</b>
<b>Lunch Break 12:00 Noon – 1:00 PM</b>	

Tuesday Afternoon, 8 December 1998, Concurrent Session			
Registration		Location: Foyer – Salon 3	
<b>Preplant Session: Submitted Papers</b> <b>Moderator: Sal Locascio</b> <b>1:00-2:50 PM</b> <b>Location: Salons 9 &amp; 10</b>		<b>Structural Session: Submitted Papers</b> <b>Moderator: Vern Walters</b> <b>1:00-2:30 PM</b> <b>Location: Salons 11 &amp; 12</b>	
1:00-1:20	<b>George Lazarovits [19]</b> - Mechanisms of Action for Control of Soilborne Pathogens by High Nitrogen-Containing Soil Amendments	1:00-1:20	<b>Alan Dowdy [71]</b> -Heat Plus Diatomaceous Earth Treatment for Stored-Product Insect Management in Flour Mills
1:20-1:40	<b>George Lazarovits [20]</b> - Effects of Ammonium Lignosulfonate on Soil Microbial Populations, Verticillium Wilt, and Potato Scab	1:20-1:40	<b>Paul Fields [72]</b> - Methyl Bromide Alternatives for Structure Disinfestation: A European Perspective
1:40-2:00	<b>Frank Louws [21]</b> -Compost as an Alternative to MeBr as a Means for Nutrient Management for Strawberry Production	1:40-2:10	<b>Dean Stanbridge [73]</b> - Incorporating Pest Management into Food Plant Good Manufacturing Practices (GMP’S)
2:00-2:20	<b>Frank Louws [22]</b> -MeBr Alternatives Research for Strawberry Production in North Carolina	2:10-2:20	<b>Melanie Miller [74]</b> - German Bilateral Support for MeBr Alternatives
2:20-2:40	<b>Frank Sances [23]</b> -Conventional and Organic Alternatives to MeBr on California Strawberries	2:20-2:40	<b>Robert Taylor [75]</b> -Costing the Phase-Out of MeBr for Non-Soil Uses in the United Kingdom
2:40-2:50 PM	Discussion of Problems with Implementation of the Alternatives	<b>2:40-2:50 PM</b>	<b>Discussion of Problems with Implementation of the Alternatives</b>
<b>2:30 – 3:00 PM</b>			
<b>Break</b>			
		<b>Locations: Salons 3 &amp; 4</b>	

<b>Preplant Session: Submitted Papers</b>		<b>3:00-6:00 PM</b>	<b>Postharvest Symposia: Technology Transfer :</b>		<b>3:00-5:15 PM</b>
<b>Moderator: Kirk Larson</b>		<b>Location: Salons 9 &amp; 10</b>	<b>Promising Chemical Alternatives to Postharvest Applications of Methyl Bromide and the Trapping of Methyl Bromide</b>		
3:00-3:20	<b>Kirk Larson [24]</b> -Strawberry Yield Performance in Response to Ten Preplant Soil Treatments		<b>Moderator: J. Larry Zettler</b>		
3:20-3:40	<b>Robert Webb [25]</b> -Unique Use of Basamid in Combination with other Fumigants in California Strawberries		<b>Location: Salons 11 &amp; 12</b>		
3:40-4:00	<b>Alex Csinos [26]</b> -Alternatives for MeBr Fumigation of Tobacco Seed Beds, Pepper and Tomato Seedlings		3:00-3:15	<b>J.L. Zettler</b> –Chemical Alternatives for MeBr Treatments of Dried Fruits and Nuts	
4:00-4:20	<b>Don Dickson [27]</b> -Evaluation of MeBr Alternative Fumigants on Tomato under Polyethylene Mulch in 1998		3:15-3:30	<b>D. M. Obenland [76]</b> -Phytotoxicity of Fresh Commodity to New Alternative Fumigants	
4:20-4:40	<b>Salvadore Locascio [28]</b> -Metam Sodium Combined with Chloropicrin as an Alternative to MeBr Fumigation for Tomato		3:30-3:45	<b>J.G. Leesch [77]</b> -Trapping Methyl Bromide on Activated Carbon	
4:40-5:00	<b>Mitchell Sauerhoff [29]</b> -Metam Sodium as an Alternative to MeBr for Fruit and Vegetable Production and Orchard Replanting		3:45-4:00	<b>M. Lescisin</b> –An Agribusiness Look at the Implementation of New Alternatives	
5:00-5:20	<b>James Sims [30]</b> -Methyl Iodide-Recent Field Results		4:00-4:15	<b>Luis Suguiyama</b> - The Registration Process Required for New Alternative Chemicals to replace MeBr for Post-harvest Pest Control	
5:20-5:40	<b>L.W.Vincent [31]</b> -EMF for Pest Control in Soil as a MeBr Alternative		4:15-5:15 PM	Open Forum -- Ease/Difficulty of Implementing Alternatives	
<b>5:40-6:00 PM</b>		<b>Discussion of Problems with Implementation of the Alternatives</b>	<b>Facilitator: Jim Leesch</b>		

<b>Wednesday Morning, 9 December 1998, Concurrent Session</b>					
<b>Registration</b>		<b>NOTE:</b>	<b>THREE SESSIONS</b>		<b>Location: Foyer – Salon 3</b>
<b>Preplant Session: Submitted Papers</b>		<b>8:00-10:00</b>	<b>Postharvest Session: Submitted Papers</b>		
<b>AM Moderator: George Lazarovits</b>		<b>Location: Salons 9 &amp; 10</b>	<b>Moderator: Guy Hallman</b>		
8:00-8:20	<b>William Carey [32]</b> -Chloropicrin with Metham-Sodium and Eptam for Nutsedge Control and the Production of Southern Pine Seedlings		8:00-8:20	<b>Toshiyutsi Dohino [78]</b> - Electron Beam Disinfestation of Cut Flowers	
8:20-8:40	<b>Stephen Fraedrich [33]</b> -Evaluation of Fumigants for Pest Management and Seedling Production in Southern Pine Nurseries		8:20-8:40	<b>Stephen Drake [79]</b> -Quality of Apples and Pears after Exposure to Irradiation as a Quarantine Treatment	
8:40-9:00	<b>Michael McKenry [34]</b> -Nematicidal Value of Eighteen Preplant Treatments One Year after Replanting Susceptible and Resistant Peach Rootstocks		8:40-9:00	<b>Guy Hallman [80]</b> -Radiation Quarantine Treatment for Blueberries to Replace MeBr	
9:00-9:20	<b>Michael McKenry [35]</b> -Growth and Yield Benefit of Replanting		9:00-9:20	<b>Steven Halverson [81]</b> -Penetration of Infested Stored-Products by EHF/SHF Microwave Energy	
			<b>9:20-10:00 AM</b>	<b>Discussion of Problems with Implementation of the Alternatives</b>	

into “Transported Non Replant Problem Soil”		
9:20-9:40	<b>Jeffrey Stone [36]</b> -Alternatives to MeBr Fumigation for Control of Soil Borne Diseases in Bare Root Forest Nurseries	
9:40-10:00	<b>Martin Lyons [37]</b> -Preplant Nursery Soil Additions of Forest Soils, Commercial Sewage and Mushroom Composts and Basamid (Dazomet) to control the Fungal Pathogen, <i>Cylindrocladium scoparium</i>	
THIRD SESSION	<b>Preplant Session: Submitted Papers</b>	<b>8:00-10:00 AM</b>
	<b>Moderator: Lori Lynch</b>	<b>Location: Salon 15</b>
	8:00-8:20 <b>John Van Sickle [38]</b> -The Impact of the MeBr Ban on the U.S. Vegetable Industry	
	8:20-8:40 <b>Lori Lynch [39]</b> -Economic Impacts of Switching from Pre-Plant Fumigation with MeBr	
	8:40-9:00 <b>Joe Noling [40]</b> -Alternatives to MeBr for Nematode Control: A South Florida Synopsis	
	9:00-9:20 <b>Fred Zensen</b> -MBC Impacts in the Forest Service Nurseries-PNW	
	9:20-9:40 <b>Louis Champon [41]</b> - DAZITOL - The Silver Bullet Replacement for MeBr Pre-plant Usage	
	<b>9:40-10:00 AM</b>	<b>Discussion of Problems with Implementation of the Alternatives</b>
Break 9:45 – 10:15 AM		

**Wednesday Morning – Concurrent Sessions**

<b>Preplant Symposia: Technology Transfer 10:00-12:00 Noon</b>		<b>Postharvest Session: Submitted Papers 10:00-12:00 Noon Moderator: Roy McDonald Location: Salons 11 &amp; 12</b>	
<b>For Preplant Alternatives to Methyl Bromide</b>			
<b>Moderator: Roy Gingery</b>	<b>Location: Salons 9 &amp; 10</b>		
10:00-10:10	<b>Michael McKenry [42]</b> -Technology Transfer Among Tree and Vine Crops	10:00-10:20	<b>Paul Leek [82]</b> -Portable Electron Beam Systems
10:10-10:20	<b>Joseph Noling [43]</b> -Technology Transfer of MeBr Alternative for Soilborne Pest Management	10:20-10:40	<b>Paisan Loaharanu [83]</b> -Irradiation as a Phytosanitary Treatment of Fresh Horticultural Commodities
10:20-10:30	<b>C. Winterbottom [44]</b> -Technology Transfer of MeBr Alternatives in California Strawberry Production	10:40-11:00	<b>Roy McDonald [84]</b> - Irradiation-Induced Changes in Phenylalanine Ammonia-Lyase Activity and Phenolic Compounds in Grapefruit Flavedo
10:30-10:40	<b>Wes Roan [45]</b> -Technology Transfer: A Farm Perspective	11:00-11:20	<b>Burrell Smittle [85]</b> - Update on Replacement Linear Accelerator at Florida Department of Agriculture
10:40-10:50	<b>Sheila Daar [46]</b> -Technology Transfer Strategy for Biologically-Intensive IPM Alternatives to MeBr in Winegrapes	11:20-11:40	<b>Thomas Phillips [86]</b> -Cylinder-Based Phosphine for Control of Postharvest Insect Pests
<b>10:50-12:00 Noon</b>	<b>Discussion of Problems with Implementation of the Alternatives</b>	<b>11:40-12:00 Noon</b>	<b>Discussion of Problems with Implementation of the Alternatives</b>
<b>Facilitator: Roy Gingery</b>			
<b>Wednesday Afternoon, 9 December 1998, Concurrent Session</b>			
<b>Registration</b>		<b>Location: Foyer – Salon 3</b>	
<b>Preplant Session: Submitted Papers 1:00-3:00 PM</b>		<b>Postharvest Session: Submitted Papers 1:00-3:00 PM</b>	
<b>Moderator: C. Winterbottom</b>	<b>Location: Salons 9 &amp; 10</b>	<b>Moderator: Jonathan Donahaye</b>	<b>Location: Salons 11 &amp; 12</b>
1:00-1:20	<b>C. Winterbottom [47]</b> -On-Farm MeBr Preplant Soil Fumigation Alternatives in California Strawberry Production	1:00-1:20	<b>Brian Schneider [87]</b> -Control of Stored Product Pests with Vikane Gas Fumigant (Sulfuryl Fluoride)
1:20-1:40	<b>David Murray [48]</b> -MeBr Alternatives in Southern California Strawberry Production: A Farmer’s Perspective	1:20-1:40	<b>Stephen Bullington [88]</b> -A New System to Protect Stored Cocoa Beans from Insects without the use of MeBr
1:40-2:00	<b>Andrea Minuto [49]</b> - Reducing the Usage of MeBr for Soil Disinfestation in Italy: Present Situation and Perspectives	1:40-2:00	<b>Jonathan Donahaye [89]</b> -Quality Preservation of Stored Dry Fruit by Carbon Dioxide Enriched Atmospheres
2:00-2:20	<b>Volkmar Hasse [50]</b> -Enabling farmers to adopt MeBr Alternatives: Strategies and Successes of Technology Transfer to Individual Farmers-The Jordanian Experience	2:00-2:20	<b>Judy Johnson [90]</b> -Use of Parasitoids for Control of Overwintering Indianmeal Moth Populations in Postharvest Dried Fruits and Nuts
2:20-2:40	<b>Melanie Miller [51]</b> -Replacing MeBr in Developing Countries-GTZ Approach and case studies	2:20-2:40	<b>George Luzaich [91]</b> -The Horn Generator/Magtoxin Granules System
<b>2:40-3:00 PM</b>	<b>Discussion of Problems with Implementation of the Alternatives</b>	<b>2:40-3:00 PM</b>	<b>Discussion of Problems with Implementation of the Alternatives</b>

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**THE END - - - - -Have a Safe Trip Home....Please Be Careful....See You Next Year**

**Acknowledgements to Symposia Organizers:**

**Preplant:**

**Bob Linderman  
Tom Trout  
Frank Westerlund**

**Economics**

**Janet Carpenter  
Leonard Gianessi  
Ralph Ross**

**Postharvest:**

**Jim Leesch  
Krista Shellie  
Pat Vail**

**N O T I C E**

**Posters must remain in poster session until noon, 9 December, 1998**

**But must be down by 3:00 PM, 9 December, 1998**



## POSTER PRESENTATION SESSION

<b>7 December, 1998</b> through <b>Salons 3 &amp; 4</b> <b>9 December, 1998</b>	<b>Coffee Break Room</b>	<b>Location:</b>
<b>Poster Preplant:</b>		
<b>Ajwa, Husein [92]-</b>	Soil Distribution and Efficacy of Alternative Fumigants to MeBr Applied by Drip Irrigation Systems	
<b>Boyette, C. [93]-</b>	Bioherbicides as Alternatives to MeBr for Weed Control	
<b>Bull, Carolee [94]-</b>	Yield of Strawberries Inoculated with Biological Control Agents and Planted in Fumigated or Non-Fumigated Soil	
<b>Carpenter, Janet [95]-</b>	MeBr Use Patterns in the U.S.	
<b>Champon, Louis[41]-</b>	DAZITOL: The Silver Bullet Replacement for MeBr Pre-plant Usage	
<b>Duerksen, Chuck [96]-</b>	Vapam®: Application is key to Success – A Viable Alternative for MeBr	
<b>Dwinell, David [97]-</b>	Effect of Dazomet Rate and Incorporation Method on Pine Production in Southern Pine Nurseries	
<b>Gilfillan, Corinna [98]-</b>	Phasing out MeBr in Developing Countries: Reducing the Gap	
<b>Juzwik, Jennifer [99]-</b>	Integrated Management of Soil-Borne Pests in Forest Nurseries: A Systems Approach	
<b>Kobara, Yuso [100]-</b>	Reducing Emission of MeBr from Soil Fumigation: Effect of a Sheet Containing Titanium Dioxide	
<b>Larkin, R.P. [101]-</b>	Biological Control of Fusarium Wilt Diseases by Nonpathogenic <i>Fusarium</i> SPP: Formulations and Field Efficacy	
<b>Maliekal, Joe [102]-</b>	Ditera Nematicide	
<b>Martin, Christian [103]-</b>	Comparative Technical and Economical Data for Sustainable Soil Disinfestation Alternatives in Vegetables Crop for Plastic Greenhouses in South France	
<b>McMillan, Robert T. Jr. [104]-</b>	Vapam as an Alternative to MeBr for South Florida Tomato Growers	
<b>Medress, E. [105]-</b>	Electromagnetic Fields (EMF) for Soil Pest Control as a MeBr Alternative: Efficacy and Technology	
<b>Phillips, Neil Jr. [106]-</b>	The Use of ENZONE® to Control Soil Insect and Disease Problems	
<b>Roumilhac, Didier [107]-</b>	Barrier Film with Orgalloy: Already Used for MeBr, Also Efficient with Alternatives	

- Sams, Carl E. [108]-** Macerated *Brassica* Leaves Suppress *Pythium ultimum* and *Rhizoctonia solani* Mycelial Growth
- Sauerhoff, Mitchell W. [29]-** Metam Sodium as an Alternative to MeBr for Fruit and Vegetable Production and Orchard Replanting
- Shetty, K. G. [109]-** Mechanism of Broccoli-Mediated Verticillium Wilt Reduction
- Shinde, Dilip [110]-** Modeling MeBr Performance in Plastic-Mulched, Bedded Vegetable Production
- Sims, J. J. [111]-** Efficacy of MeBr and Methyl Iodide Against Lesion Nematodes Harbored in Rose Roots
- Woodrow, James [112]-** Determination of MITC in Air Downwind of Fields Treated with Metam Sodium by Drip Irrigation

#### **Poster Structural:**

- Dowdy, Alan [113]-** Penetration of Heat into Cereal-Grain Processing Equipment During a Facility Heat Treatment
- Thomas, Bill [114]-** Update on Domestic and International MeBr Regulatory Issues

#### **Poster Postharvest:**

- Arthur, Frank H. [115]-** The Effects of Temperature on Residual Efficacy of Cyfluthrin Wettable Powder
- Burks, Charles [116]-** Procedures to Facilitate Release of Immature Parasitoids into Bulk Grain Storage as Infested, Parasitized Kernels
- Darmawi, J. [117]-** Radiation Doses for Quarantine Security Against Mexican Rice Borer and Sugarcane Borer
- Epsky, Nancy D. [118]-** Evaluation of a Manufactured Electronic Grain Probe Insect Counter
- Follett, Peter [119]-** Quarantine Treatments for *Cryptophlebia* in Hawaiian Lychee and Longan
- Gould, Walter P. [120]-** Hot Water Treatment for Mealybugs on Limes
- Hallman, Guy [121]-** Potential Quarantine Treatments Against Plum Curculio to Replace MeBr
- Hoch, A. L. [122]-** Evaluation of a Recirculating SAFE-HEAT<sup>®</sup> Thermal Pest Eradication Chamber to Control Commodity Pests
- Marulli, Albert S. [123]-** The Economics of Food Irradiation and the Gray\*Star<sup>™</sup> Food Irradiator
- Miller, W. R. [124]-** Refrigerated Storage and Ripening of Irradiated Papaya (Solo 'Sunrise')
- Obenland, David M. [125]-** Postharvest Fresh Commodity Quality/Phytotoxicity after Alternative MeBr Treatments
- Petry, Robert J. [126]-** Technology Transfer: Training in Developing Nations for Commercial HTFA Quarantine Export Operations – The Cook Islands Success Story
- Shellie, Krista C. [127]-** Modeling A Generic Lethal Heat Dose for Mexican Fruit Fly (*Anastrepha ludens*)
- Warren, Morris [62]-** Propylene Oxide, A Registered Fumigant, A Proven Insecticide
- Zettler, J. Larry [128]-** Chemical Alternatives for MeBr Treatments of Dried Fruits and Nuts

**THE END - - - - - -Have a Safe Trip Home....Please Be Careful....See You Next Year**